

## United States Patent and Trademark Office



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/046,614	01/14/2002	Charles Michael Birtcher	06242 USA	2701	
23543	7590 04/26/2004		EXAMINER		
	AIR PRODUCTS AND CHEMICALS, INC.			WALTON, GEORGE L	
	EPARTMENT LTON BOULEVARD		ART UNIT	PAPER NUMBER	
	VN, PA 181951501		3753		
	,		DATE MAILED: 04/26/2004	' ()	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

<u>.</u>		<u> </u>				
	Application No.	Applicant(s)				
	10/046,614	BIRTCHER ET AL.				
Office Action Summary	Examiner	Art Unit	_			
	George L. Walton	3753				
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio  - Failure to reply within the set or extended period for reply will, by statue Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1.  1.136(a). In no event, however, may a eply within the statutory minimum of thind will apply and will expire SIX (6) MOI ute, cause the application to become A	reply be timely filed  ty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	·					
·—	nis action is non-final.					
3) Since this application is in condition for allow						
closed in accordance with the practice under	r Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-21</u> is/are pending in the application	on.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-21</u> is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	Vor election requirement					
	nor election requirement.					
Application Papers						
9) The specification is objected to by the Exami		to the Forming				
10) The drawing(s) filed on is/are: a) a						
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre						
11) The oath or declaration is objected to by the						
	Examiner: Note the attache					
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority docume</li> <li>2. Certified copies of the priority docume</li> <li>3. Copies of the certified copies of the priority docume</li> <li>application from the International Bure</li> </ul>	ents have been received. ents have been received in a riority documents have been eau (PCT Rule 17.2(a)).	Application No n received in this National Stage				
* See the attached detailed Office action for a li  Attachment(s)  1)  Notice of References Cited (PTO-892)	4) ☐ Interview	Summary (PTO-413)				
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 4 &amp; 5.</li> </ol>		(s)/Mail Date Informal Patent Application (PTO-152) 				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-6, 9-16 and 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over either patent to Gregg et al (6,199,599 B1, 6,296,026 B1 or 6,457494 B1, see figures 5A-7M) in view of DuRoss et al. The above claims are readable on the patent to either patent to Gregg et al with the single exception of utilizing specific type of valves for process and purge containers, i.e. pneumatic diaphragm valves. The patent to DuRoss et al teaches the above exception. In view of the teaching of DuRoss et al, it would be obvious to one of ordinary skill in the art, at the time the invention was made, to provide the teaching of Ross to either patent to Gregg et al as taught by elements 102, 104, 106 and 302, if desired. Such a modification provides no unobvious or unexpected result. Note that the limitation of claims 9 and 18 is merely obvious design choice in view

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of the purge process of Gregg et al. Figure 8 teaches a non-referenced controller positioned on the top of cabinet 1000.

Claims 7-8 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Gregg et al in view of DuRoss et al as applied to claims 1-6, 9-16 and 18-21 above, and further in view of Birtcher et al. The above claims are readable on the above combination of Gregg et al in view of DuRoss et al with the single exception of having an ultrasonic sensor or detector for detecting solvent in a manifold and/or to determine when a bulk container is empty. The patent to Birtcher et al teaches the above exception. In view of the teaching of Birtcher et al, it would be obvious to one of ordinary skill in the art, at the time the invention was made, to provide the above exception to the device of Gregg et al as taught by elements 54, 56 and 58, if desired. Such modification provides no unobvious or unexpected result. Also, Birtcher et al teaches a controller 118 disposed on cabinet 116.

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George L. Walton whose telephone number is 703-308-2596. The examiner can normally be reached on M-F, 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on 703-308-1272. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

George L. Walton Primary Examiner Art Unit 3753